

WHAT IS CLAIMED IS:

1. A method for communicating information between a network operations center and a remote device comprising:
  - 5 transmitting at least one request for information from the network operations center to the remote device;
  - receiving the at least one request by the remote device;
  - selecting records from a data block at the remote device based upon the at least one request;
  - 10 restructuring the selected records according to a template; and
  - transmitting the restructured records to the network operations center.
- 15 2. The method of Claim 1 further comprising calculating a delta between the restructured records and a stored set of restructured records.
- 20 3. The method of Claim 1 further comprising storing the restructured records by the remote device.
4. The method of Claim 1 further comprising evaluating at least one characteristic of the request for information to determine the type of information being requested.
- 25 5. The method of Claim 1 further comprising writing the restructured records to a device response.

6. The method of Claim 1 further comprising:  
receiving the restructured records by the network  
operations center; and  
5 updating at least one value stored in a database  
using the restructured records.

7. The method of Claim 6 further comprising  
combining the restructured records received by the  
network operations center with at least one value stored  
10 in the database.

8. The method of Claim 1 further comprising:  
transmitting at least one check value; and  
comparing at least one check value with at least one  
15 stored value.

9. The method of Claim 1 further comprising  
selecting the records from a DEX/UCS data block.

20 10. The method of Claim 1 wherein transmitting is  
supported by a wireless network.

11. The method of Claim 1 wherein transmitting is  
supported by a wire-line network.

12. A method for communicating data between a network operations center and a remote device comprising:

transmitting a request for data to at least one remote device;

5 receiving the at least one request for data by the at least one remote device;

establishing a current state for the at least one remote device;

10 accessing a previous state for the at least one remote device;

calculating a delta between the current state and the previous state for the at least one remote device;

writing the delta to a device response; and

15 transmitting the device response to the network operations center.

13. The method of Claim 12 further comprising recreating the current state of the remote device at the network operations center.

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14. The method of Claim 12 further comprising updating a database at the network operations center based upon the delta and a stored value in the database.

25 15. The method of Claim 12 further comprising:

storing the current state of the remote device as the previous state of the remote device; and

storing the previous state of the remote device as a reference state for the remote device.

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16. The method of Claim 12 further comprising selecting records from a data block at the remote device indicative of the current state of the remote device.

5 17. The method of Claim 16 further comprising restructuring the selected records based upon a template to establish the current state of the remote device.

10 18. The method of Claim 12 further comprising applying a data compression algorithm to the calculated delta.

15 19. The method of Claim 12 further comprising: transmitting at least one check value; and comparing the at least one check value with at least one stored value.

20. A system for acquiring data at a remote device and communicating information between a network operations center and the remote device comprising:

the remote device operable to receive a request for  
5 information from the network operations center;

a data block having at least one set of records stored at the remote device;

a template accessible by the remote device for restructuring a record selected from the data block;

10 the remote device operable to select a record from the data block based on the request for information;

a network for communicating information between the network operations center and the remote device; and

15 the remote device operable to restructure the selected records according to the template and to transmit the restructured record to the network operations center using the network.

21. A method for communicating information between a network operations center and a remote device comprising:

5       selecting records from a data block communicatively coupled to device;

          restructuring the selected records according to a template;

10      calculating a delta between the restructured records and a stored set of records; and

          transmitting the delta to the network operations center.

22. The method of Claim 21 further comprising  
15 applying a data compression algorithm to the delta.

23. The method of Claim 21 further comprising  
sorting the delta by the remote device.

20       24. The method of Claim 21 further comprising  
          writing the delta to a device response.

25       25. The method of Claim 21 further comprising  
          combining the delta with at least one value stored in a  
          database communicatively coupled to the network  
          operations center.

30       26. The method of Claim 21 further comprising:  
          transmitting at least one check value; and  
          comparing the at least one check value with at least  
          one stored value.

27. The method of Claim 21 further comprising selecting the records from a DEX/UCS data block.

28. A system for acquiring data at a remote device and communicating between a network operations center and the remote device comprising:

- the remote device operable to establish
- 5 communications with the network operations center;
- a data block having at least one set of records communicatively coupled to the remote device;
- a template at the remote device for restructuring a record selected from the data block;
- 10 the remote device operable to select a record from the data block;
- a network for communicating between the network operations center and the remote device; and
- the remote device operable to restructure the
- 15 selected records according to the template, to calculate a delta based upon the restructured records and a stored set of records and to transmit the delta to the network operations center using the network.

20 29. The system of Claim 28 further comprising:

- a data compression algorithm operably coupled to the remote device; and
- the data compression algorithm operable to reduce delta in size.

25 30. The system of Claim 28 further comprising the remote device operable to calculate delta in response to a predetermined event.